

Claims

I Claim:

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1. A searchlight device comprising:
 - a housing including a first end;
 - a window in the first end of said housing;
 - a lamp disposed within said housing so as to emit light through said window;
 - a shaft; and,
 - a positioning assembly secured to said housing, said positioning assembly including: a first motor operable to rotate said housing in a first plane with respect to said shaft, and a second motor operable to pivot said housing in a second plane with respect to said shaft.
 2. The device of Claim 1, wherein said first and second planes are different.
 3. The device of Claim 2, wherein said first and second planes are substantially perpendicular to each other.
 4. The device of Claim 1, wherein said housing is substantially cylindrical.
 5. The device of Claim 1, further comprising an elongated neck, wherein said shaft passes through said neck into said housing.

6. The device of Claim 1, wherein said positioning assembly further comprises a vertical adjustment assembly including first and second perpendicular tubular members and a planar portion, said first motor is secured to said planar portion, and said shaft passes through said first tubular portion.

7. The device of Claim 6, wherein said positioning assembly further comprises a horizontal adjustment member including a recess for at least partially receiving said second tubular portion and said second motor.

8. The device of Claim 1, further comprising a first gear secured with respect to said shaft, and a second gear being rotatable by said first motor, whereby operation of said first motor causes said first and second gears to engage and rotate said assembly about said shaft in said first plane.

9. The device of Claim 8, further comprising a washer including a plurality of tabs positioned so as to limit said rotation of said assembly by said first motor.

10. The device of Claim 9, wherein said rotation is limited to approximately 380 degrees.

11. The device of Claim 8, further comprising a first section gear being fixed with respect to said positioning assembly and a third gear being rotatable by said

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second motor, whereby operation of said second motor causes said first section gear and said third gear to engage thereby causing said third gear to travel along said first section gear and pivot said housing in said second plane.

12. The device of Claim 1, further comprising a controller electrically coupled to said first and second motors for selectively operating said first and second motors to orient said window so as to emit light in a plurality of directions in said first and second planes.

13. The device of Claim 1, further comprising a controller secured within said housing and electrically coupled so as to selectively operate said first and second motors.

14. A positioning assembly for orienting a searchlight in a plurality of directions with respect to a positioning shaft, said positioning assembly comprising:

a body including substantially perpendicularly disposed first and second surfaces;

a first motor secured to said first surface and including a drive shaft;

a second motor secured to said second surface and including a drive shaft;

a first gear secured to said drive shaft of said first motor;

a second gear secured to said drive shaft of said second motor;

a third gear fixed with respect to said positioning shaft and engaged by said first gear; and,

a section gear secured with respect to said body and engaged by said third gear;

wherein, operation of said first motor rotates said assembly about said shaft and operation of said second motor pivots said assembly with respect to said shaft.

15. The device of Claim 14, wherein said first and second surfaces are in first and second planes, respectively and said rotation is in said first plane and said pivoting is in said second plane.

16. The device of Claim 15, wherein said first and second planes are substantially perpendicular to each other.

17. The device of Claim 14, wherein said assembly further comprises a vertical adjustment assembly including first and second perpendicular tubular members and a planar portion, said first motor is secured to said planar portion, and said shaft passes through said first tubular portion.

